

COMPRESSOR DATA SHEET



In Accordance With Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: <b>ELGi</b>		
2	Model Number: <b>EG 37PM-100 V</b>	Date: <b>01/25/2024</b>	
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type: <b>SCREW</b>	
		# of Stages: <b>1</b>	
3*	Full Load Operating Pressure <sup>b</sup>	<b>100</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>50</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.5</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.08 (1.55) / 1 FAN</b>	hp
7	Fan Motor Nominal Efficiency	<b>NA</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>52.9</b>	<b>257.0</b>	<b>18.75</b>
	<b>43.5</b>	<b>216.0</b>	<b>18.16</b>
	<b>34.7</b>	<b>179.0</b>	<b>17.57</b>
	<b>28.5</b>	<b>124.0</b>	<b>18.36</b>
	<b>21.6</b>	<b>102.0</b>	<b>19.14</b>
8*	<b>12.9</b>	<b>54.0</b>	<b>21.52</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	kW
10	Isentropic Efficiency	<b>66.03</b>	%
11	<p>Note: Graph is only a visual representation of the data in Section 8                      Note: Y-Axis Scale, 10 to 35, +5kW/100acfm increments if necessary above 35                      X-Axis Scale, 0 to 25% over maximum capacity</p>		

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- a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E; ACFM is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity (Item 8) and Electrical Consumption (Item 8) were measured for this data sheet.
- c. No Load Power. In accordance with ISO 1217, Annex E, if measurement of no load power equals less than 1%, manufacturer may state "not significant" or "0" on the test report.
- d. Tolerance is specified in ISO 1217, Annex E, as shown in table below:  
 NOTE: The terms "power" and "energy" are synonymous for purposes of this document.

Member

Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m <sup>3</sup> / min	ft <sup>3</sup> / min	%	%	%
Below 0.5	Below 17.6	+/- 7	+/- 8	
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	
1.5 to 15	53 to 529.7	+/- 5	+/- 6	+/- 10%
Above 15	Above 529.7	+/- 4	+/- 5	

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COMPRESSOR DATA SHEET



In Accordance With Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: <b>ELGi</b>		
2	Model Number: <b>EG 37PM-115 V</b>		Date: <b>01/25/2024</b>
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type:	<b>SCREW</b>
			# of Stages: <b>1</b>
3*	Full Load Operating Pressure <sup>b</sup>	<b>115</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>50</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.5</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.08 (1.55) / 1 FAN</b>	hp
7	Fan Motor Nominal Efficiency	<b>NA</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>51.0</b>	<b>239.0</b>	<b>18.33</b>
	<b>43.1</b>	<b>200.0</b>	<b>18.23</b>
	<b>35.3</b>	<b>167.0</b>	<b>18.13</b>
	<b>29.4</b>	<b>114.0</b>	<b>19.20</b>
	<b>22.5</b>	<b>95.0</b>	<b>20.27</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	<b>kW</b>
	10	Isentropic Efficiency	<b>65.89</b> %
11	<p>Note: Graph is only a visual representation of the data in Section 8                      Note: Y-Axis Scale, 10 to 35, +5kW/100acfm increments if necessary above 35                      X-Axis Scale, 0 to 25% over maximum capacity</p>		

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- a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E; ACFM is actual cubic feet per minute at inlet conditions.
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Member

Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m <sup>3</sup> / min	ft <sup>3</sup> / min	%	%	%
Below 0.5	Below 17.6	+/- 7	+/- 8	
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	+/- 10%
1.5 to 15	53 to 529.7	+/- 5	+/- 6	
Above 15	Above 529.7	+/- 4	+/- 5	

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In Accordance With Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: <b>ELGi</b>		
2	Model Number: <b>EG 37PM-150 V</b>	Date:	<b>01/25/2024</b>
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type:	<b>SCREW</b>
		# of Stages:	<b>1</b>
3*	Full Load Operating Pressure <sup>b</sup>	<b>150</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>50</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.5</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.08 (1.55) / 1 FAN</b>	hp
7	Fan Motor Nominal Efficiency	<b>NA</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>49.3</b>	<b>219.0</b>	<b>22.51</b>
	<b>41.2</b>	<b>176.0</b>	<b>22.12</b>
	<b>33.3</b>	<b>153.0</b>	<b>21.73</b>
	<b>28.1</b>	<b>100.0</b>	<b>23.37</b>
	<b>21.9</b>	<b>88.0</b>	<b>25.01</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	<b>kW</b>
	10	Isentropic Efficiency	<b>72.91</b> %
11	<p>Note: Graph is only a visual representation of the data in Section 8                      Note: Y-Axis Scale, 10 to 35, +5kW/100acfm increments if necessary above 35                      X-Axis Scale, 0 to 25% over maximum capacity</p>		

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m <sup>3</sup> / min	ft <sup>3</sup> / min	%	%	%
Below 0.5	Below 17.6	+/- 7	+/- 8	
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	
1.5 to 15	53 to 529.7	+/- 5	+/- 6	+/- 10%
Above 15	Above 529.7	+/- 4	+/- 5	

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In Accordance With Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: <b>ELGi</b>		
2	Model Number: <b>EG 37PM-125 V</b>	Date:	<b>01/25/2024</b>
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type:	<b>SCREW</b>
		# of Stages:	<b>1</b>
3*	Full Load Operating Pressure <sup>b</sup>	<b>125</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>50</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.5</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.08 (1.55) / 1 FAN</b>	hp
7	Fan Motor Nominal Efficiency	<b>NA</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>51.4</b>	<b>248.0</b>	<b>19.78</b>
	<b>43.8</b>	<b>206.0</b>	<b>19.79</b>
	<b>36.2</b>	<b>173.0</b>	<b>19.81</b>
	<b>28.3</b>	<b>144.0</b>	<b>19.66</b>
	<b>20.5</b>	<b>99.0</b>	<b>19.51</b>
8*	<b>14.5</b>	<b>50.0</b>	<b>24.22</b>
	9* Total Package Input Power at Zero Flow <sup>c, d</sup>		
10	Isentropic Efficiency	<b>72.14</b>	%
11	<p>Note: Graph is only a visual representation of the data in Section 8                      Note: Y-Axis Scale, 10 to 35, +5kW/100acfm increments if necessary above 35                      X-Axis Scale, 0 to 25% over maximum capacity</p>		

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m <sup>3</sup> / min	ft <sup>3</sup> / min	%	%	%
Below 0.5	Below 17.6	+/- 7	+/- 8	
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	
1.5 to 15	53 to 529.7	+/- 5	+/- 6	+/- 10%
Above 15	Above 529.7	+/- 4	+/- 5	

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1	Manufacturer: <b>ELGi</b>		
2	Model Number: <b>EG 37PM-175 V</b>	Date:	<b>01/25/2024</b>
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type:	<b>SCREW</b>
		# of Stages:	<b>1</b>
3*	Full Load Operating Pressure <sup>b</sup>	<b>175</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>50</b>	hp
5	Drive Motor Nominal Efficiency	<b>97.5</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>2.08 (1.55) / 1 FAN</b>	hp
7	Fan Motor Nominal Efficiency	<b>NA</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	<b>45.3</b>	<b>187.0</b>	<b>24.09</b>
	<b>38.6</b>	<b>150.0</b>	<b>24.18</b>
	<b>31.9</b>	<b>130.0</b>	<b>24.27</b>
	<b>27.4</b>	<b>87.0</b>	<b>26.46</b>
	<b>21.5</b>	<b>74.0</b>	<b>28.65</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.00</b>	<b>kW</b>
	10	Isentropic Efficiency	<b>70.21</b> %
11	<p>Note: Graph is only a visual representation of the data in Section 8                      Note: Y-Axis Scale, 10 to 35, +5kW/100acfm increments if necessary above 35                      X-Axis Scale, 0 to 25% over maximum capacity</p>		

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Below 0.5	Below 17.6	+/- 7	+/- 8	
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	
1.5 to 15	53 to 529.7	+/- 5	+/- 6	+/- 10%
Above 15	Above 529.7	+/- 4	+/- 5	

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